## **Claims**

1. A tetrahydro-naphthalene derivative of the formula (I), its tautomeric or stereoisomeric form, or a salt thereof:

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wherein

R<sup>1</sup> represents hydrogen or C<sub>1-6</sub> alkyl;

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X represents  $-N(H)Y^1$ ,  $-N(H)-C_{1-6}$  alkyleneY<sup>1</sup>, biphenyl or  $C_{1-6}$  alkyl substituted by biphenyl;

wherein

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said biphenyl is substituted by  $Z^1$ ,  $Z^2$  and  $Z^3$ ;

 $Y^1$  represents biphenyl substituted by  $Z^3$ ,  $Z^4$  and  $Z^5$ ;

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Z¹ and Z² are identical or different and represent hydrogen, halogen, carboxy, nitro, C₁-6 alkyl optionally substituted by cyano or mono-, di-, or tri- halogen, C₁-6 alkoxy optionally substituted by morpholino, or mono-, di-, or tri- halogen, C₁-6 alkylthio, amino, C₁-6 alkylamino, di(C₁-6 alkyl)amino, C₁-6 alkylsulfinyl, C₁-6 alkanoyl, or C₁-6 alkoxycarbonyl;

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$Z^3$	represents hydrogen, halogen, amino, pyrrolidinyl,
	piperidino, piperazinyl, homopiperidino, C <sub>1-6</sub> alkoxy
	optionally substituted by mono-, di-, or tri- halogen, or
	C <sub>1-6</sub> alkyl optionally substituted by mono-, di-, or tri-
	halogen;

Z<sup>4</sup> represents halogen, carboxy, nitro, C<sub>1-6</sub> alkyl optionally substituted by cyano or mono-, di-, or tri- halogen, C<sub>1-6</sub> alkoxy optionally substituted by morpholino, or mono-, di-, or tri- halogen, C<sub>1-6</sub> alkylthio, amino, C<sub>1-6</sub> alkylamino, di(C<sub>1-6</sub> alkyl)amino, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkanoyl, or C<sub>1-6</sub> alkoxycarbonyl; and

z<sup>5</sup> represents hydrogen, halogen, carboxy, nitro, C<sub>1-6</sub> alkyl optionally substituted by cyano or mono-, di-, or tri-halogen, C<sub>1-6</sub> alkoxy optionally substituted by morpholino, or mono-, di-, or tri-halogen, C<sub>1-6</sub> alkylthio, amino, C<sub>1-6</sub> alkylamino, di(C<sub>1-6</sub> alkyl)amino, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkanoyl, or C<sub>1-6</sub> alkoxycarbonyl;

or

Z<sup>4</sup> and Z<sup>5</sup> together with the carbon atom to which they are attached, form a benzene ring.

2. The tetrahydro-naphthalene derivative of the formula (I), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 1,

wherein

R<sup>1</sup> represents hydrogen;

X represents  $-N(H)Y^1$  or  $-N(H)-C_{1-6}$  alkylene $Y^1$ ;

Y<sup>1</sup> represents

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Z³ represents hydrogen, fluoro, chloro, bromo, amino, pyrrolidinyl, piperidino, piperazinyl, homopiperidino, C<sub>1-6</sub> alkoxy optionally substituted by cyano or mono-, di-, or tri- halogen, or C<sub>1-6</sub> alkyl optionally substituted by cyano or mono-, di-, or tri- halogen;

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Z<sup>4</sup> represents halogen, carboxy, nitro, C<sub>1-6</sub> alkyl optionally substituted by cyano or mono-, di-, or tri- halogen, C<sub>1-6</sub> alkoxy optionally substituted by morpholino, or mono-, di-, or tri- halogen, C<sub>1-6</sub> alkylthio, amino, C<sub>1-6</sub> alkylamino, di(C<sub>1-6</sub> alkyl)amino, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkanoyl, or C<sub>1-6</sub> alkoxycarbonyl; and

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Z<sup>5</sup> represents hydrogen, halogen, carboxy, nitro, C<sub>1-6</sub> alkyl optionally substituted by cyano or mono-, di-, or trihalogen, C<sub>1-6</sub> alkoxy optionally substituted by morpholino, or mono-, di-, or tri- halogen, C<sub>1-6</sub> alkylthio, amino, C<sub>1-6</sub> alkylamino, di(C<sub>1-6</sub> alkyl)amino, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkanoyl, or C<sub>1-6</sub> alkoxycarbonyl.

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3. The tetrahydro-naphthalene derivative of the formula (I), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 1,

wherein

R<sup>1</sup> represents hydrogen;

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X represents  $-N(H)Y^1$  or  $-N(H)-C_{1-6}$  alkyleneY<sup>1</sup>;

Y<sup>1</sup> represents

$$Z^{3}$$
 $Z^{4}$ 
 $Z^{5}$ 

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Z<sup>3</sup> represents hydrogen or piperidino;

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Z<sup>4</sup> represents fluoro, chloro, bromo, carboxy, nitro, C<sub>1-6</sub> alkyl optionally substituted by mono-, di-, or tri-halogen, C<sub>1-6</sub> alkoxy optionally substituted by morpholino, or mono-, di-, or tri-halogen, C<sub>1-6</sub> alkylthio, di(C<sub>1-6</sub> alkyl)amino, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkanoyl, or C<sub>1-6</sub> alkoxycarbonyl; and

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- Z<sup>5</sup> represents hydrogen, fluoro, chloro, bromo, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> alkylthio or C<sub>1-6</sub> alkyl optionally substituted by cyano or mono-, di-, or tri- halogen.
- 25 4.

The tetrahydro-naphthalene derivative of the formula (I), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 1,

wherein

## R<sup>1</sup> represents hydrogen;

## X represents

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$$Z^3$$
  $Z^1$   $Z^2$  ;

n represents an integer selected from 0 to 6;

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 $Z^1$  and  $Z^2$  are identical or different and represent hydrogen, fluoro, chloro, bromo, carboxy, nitro,  $C_{1-6}$  alkyl optionally substituted by mono-, di-, or tri- halogen,  $C_{1-6}$  alkoxy optionally substituted by morpholino, or mono-, di-, or tri- halogen,  $C_{1-6}$  alkylthio, di( $C_{1-6}$  alkyl)amino,  $C_{1-6}$  alkylsulfinyl,  $C_{1-6}$  alkanoyl, or  $C_{1-6}$  alkoxycarbonyl; and

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Z³ represents hydrogen, fluoro, chloro, bromo, amino, piperidino, C<sub>1-6</sub> alkoxy optionally substituted by mono-, di-, or tri- halogen, or C<sub>1-6</sub> alkyl optionally substituted by cyano or mono-, di-, or tri- halogen.

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5. The tetrahydro-naphthalene derivative of the formula (I), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 1, wherein

R<sup>1</sup> represents hydrogen;

## X represents

$$Z^3$$
 $Z^1$ 
 $Z^2$ 

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n represents an integer of 0 or 1;

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Z¹ represents hydrogen, fluoro, chloro, bromo, C<sub>1-6</sub>alkyl, C<sub>1-6</sub> alkoxy, amino, C<sub>1-6</sub> alkylamino, or di(C<sub>1-6</sub> alkyl)amino;

- $Z^2$  represents hydrogen, fluoro, chloro, bromo,  $C_{1-6}$  alkyl or  $C_{1-6}$  alkoxy: and
- Z<sup>3</sup> represents hydrogen.

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6. The tetrahydro-naphthalene derivative of the formula (I), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 1, wherein said tetrahydro-naphthalene derivative of the formula (I) is selected from the group consisting of:

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- $\label{eq:N-proposed} N-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)-N'-[4'-(trifluoromethyl)-biphenyl-3-yl]urea;$
- N-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)-N'-[2'-(trifluoromethyl)-biphenyl-3-yl]urea;

- N-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)-N'-[4'-(methylthio)bi-phenyl-3-yl]urea;
- N-(2',3'-dichlorobiphenyl-3-yl)-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)urea;

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- N-(2',4'-dichlorobiphenyl-3-yl)-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)urea;
- N-(4'-acetylbiphenyl-3-yl)-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)-urea;
- N-[(2'-fluorobiphenyl-4-yl)methyl]-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)urea;
  - N-[(2'-fluorobiphenyl-4-yl)methyl]-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)urea;
  - N-[(2',6'-difluorobiphenyl-4-yl)methyl]-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)urea;
  - N-[(2'-fluorobiphenyl-3-yl)methyl]-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)urea;
  - N-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)-N'-[(4'-isopropylbiphenyl-3-yl)methyl]urea;
- N-[(2',4'-dichlorobiphenyl-3-yl)methyl]-N'-(7-hydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)urea.
- A medicament comprising tetrahydro-naphthalene derivative of the formula
   (I), its tautomeric or stereoisomeric form, or a physiologically acceptable salt
   thereof as claimed in claim 1 in as an active ingredient.
  - 8. The medicament as claimed in claim 7, further comprising one or more pharmaceutically acceptable excipients.
- 9. The medicament as claimed in claim 7, wherein said tetrahydro-naphthalene derivative of the formula (I), its tautomeric or stereoisomeric form, or a physiologically acceptable salt thereof is a VR1 antagonist.
- The medicament as claimed in claim 7 for the treatment and/or prevention of an urological disorder or disease.

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- 11. The medicament as claimed in claim 10, wherein said urological disorder or disease is urge urinary incontinence or overactive bladder.
- 12. The medicament as claimed in claim 7 for the treatment and/or prevention of pain.
  - 13. The medicament as claimed in claim 12, wherein said pain is chronic pain, neuropathic pain, postoperative pain, or rheumatoid arthritic pain.
- 10 14. The medicament as claimed in claim 7 for the treatment and/or prevention of a disorder or disease related to pain.
  - 15. The medicament as claimed in claim 14, wherein said disorder or disease related to pain is neuralgia, neuropathies, algesia, nerve injury, ischaemia, neurodegeneration, or stroke.
    - 16. The medicament as claimed in claim 7 for the treatment and/or prevention of an inflammatory disorder or disease.
- 20 17. The medicament as claimed in claim 16, wherein said inflammatory disorder or disease is asthma or COPD.
  - 18. Use of compounds according to claim 1 for manufacturing a medicament for the treatment and/or prevention of an urological disorder or disease.
  - 19. Use of compounds according to claim 1 for manufacturing a medicament for the treatment and/or prevention of pain.
- Use of compounds according to claim 1 for manufacturing a medicament for the treatment and/or prevention of an inflammatory disorder or disease.

- 21. Process for controlling an urological disorder or disease in humans and animals by administration of a VR1-antagonisticly effective amount of at least one compound according to claim 1.
- 5 22. Process for controlling pain in humans and animals by administration of a VR1-antagonisticly effective amount of at least one compound according to claim 1.
- 23. Process for controlling an inflammatory disorder or disease in humans and animals by administration of a VR1-antagonisticly effective amount of at least one compound according to claim 1.